

AMENDMENTS TO THE CLAIMS

(IN FORMAT COMPLIANT WITH THE REVISED 37 CFR 1.121)

1. (CURRENTLY AMENDED) A circuit for reducing the number of bits in a data value, the circuit comprising:

a first summing circuit configured to add an error offset value and one or more ~~MSBs~~ most significant bits (MSBs) of said bit
5 data value to produce a result data value;

a control circuit configured to generate a dither offset value;

an error feedback circuit configured to receive one or more ~~LSBs~~ least significant bits (LSBs) of said result data value
10 and generate an error value dependent on said LSBs;

a second summing circuit configured to add said dither offset value and said error value to provide said error offset value; and

a processor configured to selectively control generation
15 of said dither offset value and said error value.

2. (ORIGINAL) The circuit according to claim 1, wherein said data value is representative of a pixel data for display on a video display screen.

3. (ORIGINAL) The circuit according to claim 2, wherein said control circuit comprises:

5. a dither generating circuit configured to generate said dither offset value in response to the LSBs of each of a first and second coordinates of said pixel data represented by said data value.

4. (ORIGINAL) The circuit according to claim 3, wherein:

said dither generating circuit comprises first and second inputs; and

5. said control circuit comprises:

a first coordinate counter for counting through said first coordinates from a first initial value and applying the LSBs of each said first coordinates to said first input of said dither generating circuit; and

10 a second coordinate counter for counting through said second coordinates from a second initial value and applying the LSBs of each said second coordinates to said second input of said dither generating circuit, wherein each of said first and second coordinate counters comprises a reset input for resetting to
15 said first and second initial values in response to receipt of a respective reset signal.

5. (ORIGINAL) The circuit according to claim 4,
wherein:

said first counter reset signal comprises a horizontal
synchronization signal; and

5. said second counter reset signal comprises a vertical
synchronization signal.

6. (ORIGINAL) The circuit according to claim 5, wherein
said horizontal synchronization signal is further configured to
increment said second coordinate counter.

7. (ORIGINAL) The circuit according to claim 1, wherein
said processor is further configured to generate a preselected
concealment type signal for controlling generation of said dither
offset value and said error value.

8. (ORIGINAL) The circuit according to claim 7, wherein
said control circuit further comprises:

a dither offset generating circuit operable to generate
said dither offset value in dependence on said preselected
5 concealment type signal; and

an inhibit circuit for inhibiting said error value in
response to said preselected concealment type signal.

9. (ORIGINAL) The circuit according to claim 1, further comprising:

a truncation circuit for truncating said data value to a predetermined bit value and applying said predetermined bit value to said first summing circuit.

10. (CURRENTLY AMENDED) The circuit according to claim 1, further comprising:

a limit circuit for receiving a first set of most significant bits (MSBs) ~~MSBs~~ from said first summing circuit and generating a bit output of a value in response to the value of the MSB of said first MSBs.

11. (CURRENTLY AMENDED) A method of applying error concealment to the reduction of a data value, comprising the steps of:

(A) receiving a series of successive data values;

(B) generating a respective error offset value for each of said data values; and

(C) adding each of said error offset values to a one or more most significant bits (MSBs) ~~MSBs~~ of the next following data value to produce a respective result value, wherein step (B) further comprises the sub-steps of (B-1) generating a dither offset value for each of said data values, (B-2) generating an error value

from one or more least significant bits (LSBs) of the previous result value, and (B-3) summing said dither offset value and said error value to produce said error offset value.

12. (CANCELED)

13. (ORIGINAL) The method according to claim 11, wherein said data value is representative of a pixel data for display on a video display screen.

14. (CURRENTLY AMENDED) The method according to claim 13, wherein step (B) further comprises:

generating said dither offset value in response to the LSBs of each of a first and a second ~~coordinates~~ coordinate of said pixel data represented by said data value.

15. (ORIGINAL) The method according to claim 14, wherein said dither offset value is a function of the LSBs of each said first and second coordinate of said pixel data.

16. (ORIGINAL) The method according to claim 15, wherein step (B) further comprises:

counting through said first coordinates from a first initial value;

5 counting through said second coordinates from a second
initial value; and

 generating said dither offset values in response to the
LSBs of each said first and second coordinates.

17. (ORIGINAL) The method according to claim 16,
wherein:

 said first coordinate is reset by a horizontal
synchronization signal;

5 said second coordinate is reset by a vertical
synchronization signal.

18. (CURRENTLY AMENDED) The method according to claim 11
±2, wherein step (B) further comprises:

 generating a preselected concealment type signal for
controlling generation of said dither offset value and said error
5 value.

19. (ORIGINAL) The method according to claim 11, wherein
step (C) further comprises:

 generating a bit output of a value dependent on the value
of the MSB of said result value.

20. (CURRENTLY AMENDED) The method according to claim 11
±2, wherein step (B) further comprises:

generating a concealment type signal; and

generating said dither offset value in dependence on said

5. concealment type signal.